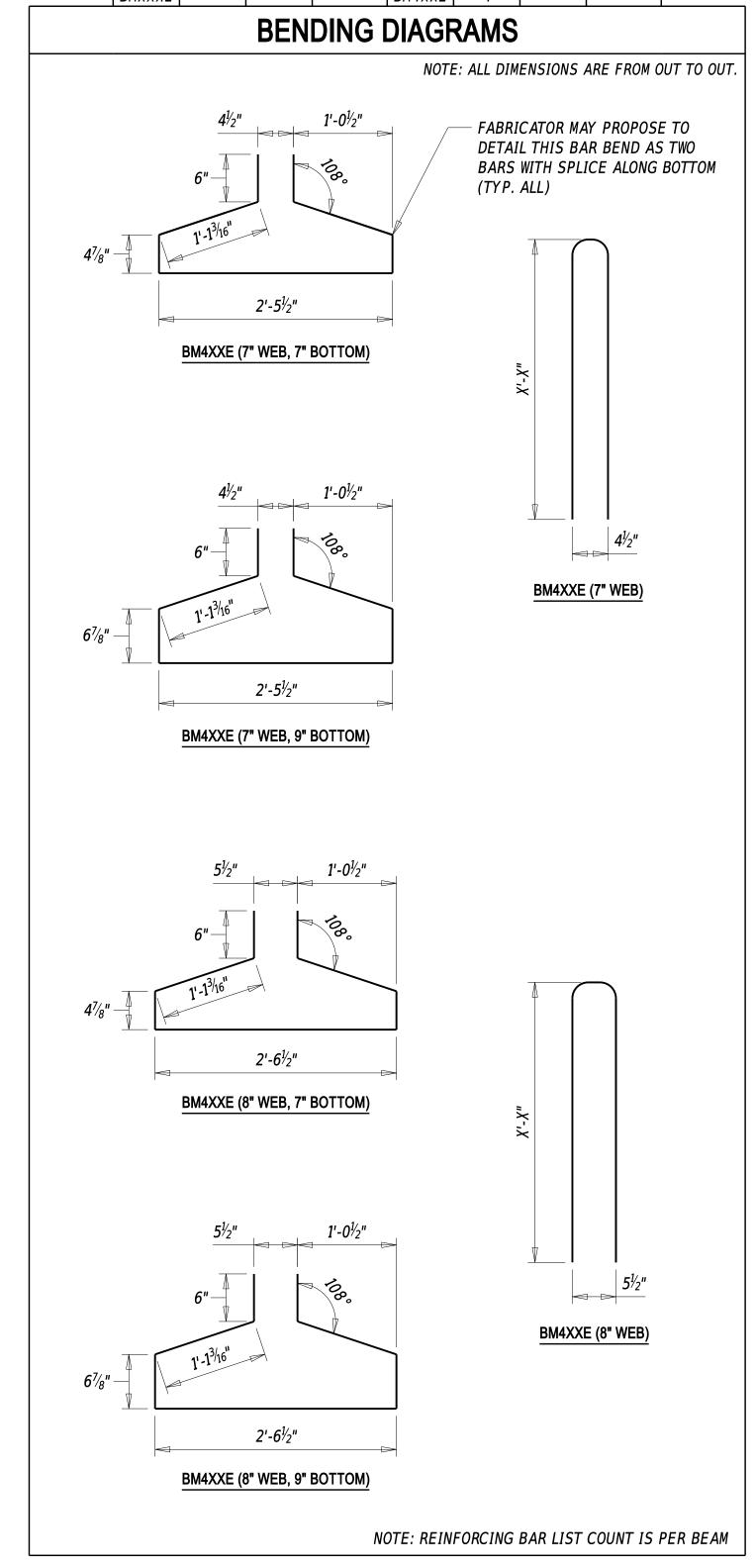
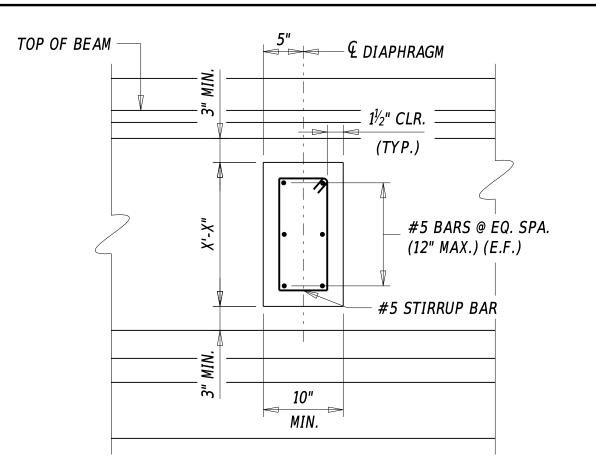


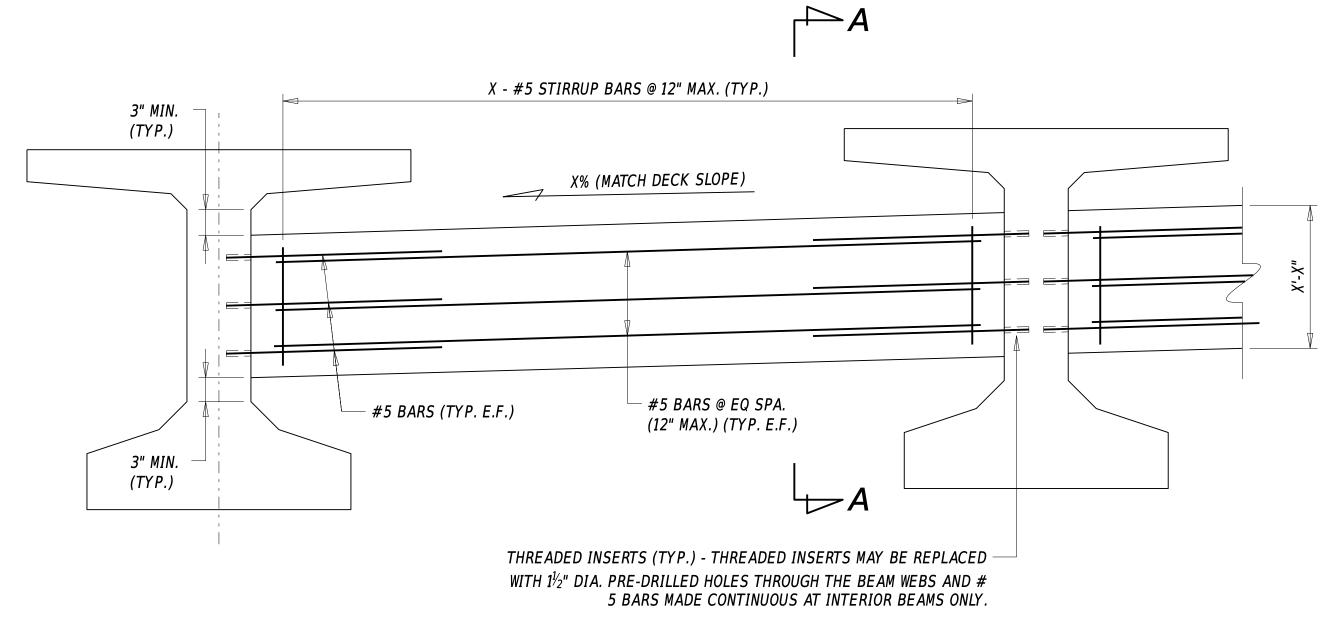
NOTE: ALL REINFORCEMENT FOR THE PCEF BEAM IS INCLUDED IN ITEM (insert appropriate beam item number). THE REINFORCING BAR LIST AND BENDING DIAGRAMS MUST BE SHOWN ON THE PCEF GIRDER SHEETS AND SEPARATE FROM THE BRIDGE REINFORCEMENT BAR SHEET. THE BELOW DIMENSIONS ARE RECOMMENDED. THE DESIGNER IS STILL RESPONSIBLE FOR ENSURING THAT THE DIMENSIONS SHOWN ON PLANS ARE ACCURATE AND PROJECT-SPECIFIC.

REINFORCING BAR LIST							
STRAIGHT BARS				BENT BARS			
MARK	SIZE	NUMBER	LENGTH	MARK	SIZE	NUMBER	LENGTH
BMXXXE				BM4XXE	4		
BMXXXE				BM4XXE	4		
BMXXXE				BM4XXE	4		
BMXXXE				BM4XXE	4		





SECTION A-A



DESIGNER NOTES

FOUND IN SECTION 106.9.3.

- 1. REFER TO SECTION 106.9 FOR MORE INFORMATION ON THE DESIGN AND DETAILING OF PRESTRESSED CONCRETE PCEF GIRDERS. ALSO REFER TO SECTION 103.4.1.2 FOR MORE INFORMATION ON WHEN USE OF PCEF GIRDERS IS APPROPRIATE.
- 2. FOR MORE INFORMATION ON ALLOWABLE PRESTRESSING STRAND TYPE AND SIZES, REFER TO SECTION 205.4.4.
- 3. FOR MORE INFORMATION ON DESIGN AND DETAILING OF PRESTRESSING STRANDS EXTENDING INTO THE PIER DIAPHRAGM. REFER TO A5.12.3.3.9.
- 4. EXAMPLES IN THIS DETAIL UTILIZE #4 BARS. THIS IS THE MINIMUM REBAR SIZE. HIGHER BAR SIZES MAY BE REQUIRED AS PER DESIGN.
- 5. BEAM DAP CALCULATIONS INCLUDE BOTH BEAM CAMBER AND ROADWAY GRADE. BEAM DAP SHOULD BE USED ONLY WHEN H(MAX.) IS $\frac{1}{4}$ " TO $1\frac{1}{2}$ ". THE MINIMUM DISTANCE FROM BOTTOM OF BEAM TO CENTER OF BOTTOM-MOST STRAND ROW SHALL BE AS FOLLOW:
 - -DISTANCE = $2\frac{1}{2}$ " WHEN H(MAX.) IS $\frac{1}{4}$ " TO LESS THAN OR EQUAL TO $\frac{3}{4}$ "
- -DISTANCE = 3" WHEN H(MAX.) IS GREATER THAN $\frac{3}{4}$ " TO LESS THAN OR EQUAL TO $1\frac{1}{4}$ "
- -DISTANCE = $3\frac{1}{4}$ " WHEN H(MAX.) IS GREATER THAN $1\frac{1}{4}$ " TO LESS THAN OR EQUAL TO $1\frac{1}{2}$ "
- -WHEN H(MAX.) IS GREATER THAN $1\frac{1}{2}$ ", USE BEVELED SOLE PLATE AND 2" MINIMUM DISTANCE.

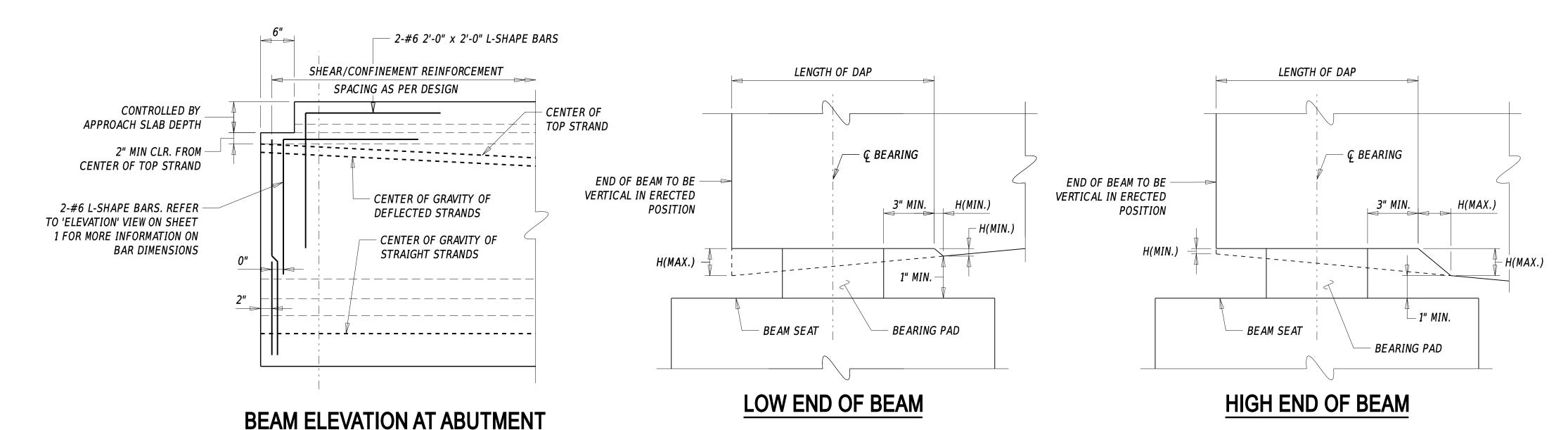
-IF THE BEAM END IS SKEWED, USE OF BEVELED SOLE PLATE IS PREFERRED OVER USE OF BEAM DAP.

- 6. INTERMEDIATE DIAPHRAGMS FOR PRESTRESSED CONCRETE PCEF GIRDERS SHALL BE CAST-IN-PLACE CONCRETE, PRECAST CONCRETE, OR GALVANIZED STEEL. THE INTERMEDIATE DIAPHRAGM DETAILS DEPICTED ON SHEET 2 SHOWS THE CAST-IN-PLACE CONCRETE OPTION. FURTHER GUIDANCE MAY BE
- 7. DETAILS FOR STAY-IN-PLACE FORMS, PIER DIAPHRAGM, AND END DIAPHRAGM CAN BE FOUND IN DETAIL NO. 325.01 CONCRETE DECK DETAILS.
- 8. ENSURE WORKING DRAWINGS MEET ALL REQUIREMENTS AS OUTLINED IN SECTION 612.03(B)&(E) OF THE DELDOT STANDARD SPECIFICATIONS.

INTERMEDIATE DIAPHRAGM ELEVATION

See Designer Note 6

NOTE: TYPICAL FOR JOINTS LOCATED OFF THE BRIDGE. REFER TO 'ELEVATION' VIEW ON SHEET 1 FOR MORE INFORMATION ON REINFORCEMENT.



BEAM DAP DETAILS

NOTE: THE DAP LENGTH MUST PARALLEL BEARING PAD EDGE. See Designer Note 5.